

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 17   | (701/4 or 244/17.13 or 244/195 or 244/177 or 244/75R) and (control\$3 with (vertical near2 velocity)) and (control\$3 with (pitch or roll))                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/01 07:47 |
| L2    | 14   | helicopter and (control\$3 with (vertical near2 velocity)) and (control\$3 with (pitch or roll))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/01 08:02 |
| L3    | 3    | (control\$3 with (vertical near2 velocity)) and (control\$3 with (pitch or roll)) and inceptor\$1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/01 08:03 |
| L4    | 13   | (control\$3 with (vertical near2 velocity)) and (control\$3 with (pitch or roll)) and (inceptor\$1 or "collective stick" or "collective pitch" or "cyclic pitch") | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/01 08:06 |
| S92   | 534  | 701/4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/07 14:16 |
| S93   | 4    | (vertical with (control near2 inceptor))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/07 15:29 |
| S94   | 18   | (aircraft same (vertical near2 state))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/07 15:30 |
| S95   | 9    | ("4516063"   "4607202"   "4664346"   "4717098"   "5347204"   "5428543"   "5746398"   "6128554"   "6145428").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2005/04/07 16:05 |
| S96   | 541  | helicopter and (vertical near2 control)   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2005/04/07 16:19 |
| S97   | 3    | S96 and inceptor  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2005/04/07 16:06 |

## EAST Search History

|          |        |   |                              |    |    |                  |
|----------|--------|---|------------------------------|----|----|------------------|
| S98      | 9      | ("4516063"   "4607202"   "4664346"   "4717098"   "5347204"   "5428543"   "5746398"   "6128554"   "6145428").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/07 16:06 |
| S99      | 208    | tactile near1 cues  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/07 16:33 |
| S10<br>0 | 3330   | ((pitch or roll) near2 attitude)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/07 16:34 |
| S10<br>1 | 15     | S100 and (vertical near2 state)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/07 16:37 |
| S10<br>2 | 128    | S100 and cue\$1   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/07 16:49 |
| S10<br>3 | 31     | inceptor  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/07 16:50 |
| S10<br>4 | 14     | ("4809500"   "4928482"   "4984425"   "5133182"   "5174105"   "5197280"   "5209428"   "5303545"   "5345757"   "5440490"   "5454531"   "5687564"   "5752379"   "5857321").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/07 16:57 |
| S10<br>5 | 3137   | ((aircraft or helicopter) with (controllers or "stick controller"))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/07 16:58 |
| S10<br>6 | 2337   | ((aircraft or helicopter) with (attitude same (roll or pitch)))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/07 16:58 |
| S10<br>7 | 320    | S105 and S106   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/07 17:40 |
| S10<br>8 | 153    | ((pitch or roll) same (attitude near2 axes))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/08 09:57 |
| S10<br>9 | 197    | 244/234   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/08 10:09 |
| S11<br>0 | 396    | 244/181   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/08 10:35 |
| S11<br>1 | 170534 | (helicopter or aircraft)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/08 10:37 |

## EAST Search History

|          |      |   |                              |    |    |                  |
|----------|------|---|------------------------------|----|----|------------------|
| S11<br>2 | 1    | (position near2 sensor) and (flight near1 controller) and (cueing near2 devices)            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/08 10:36 |
| S11<br>3 | 58   | (position near2 sensor) and (flight near1 controller)                                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/08 10:37 |
| S11<br>4 | 2576 | ((roll or pitch) near1 attitude)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/08 10:37 |
| S11<br>5 | 5    | S111 and S113 and S114  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/08 10:40 |
| S11<br>6 | 1762 | S111 and S114   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/08 10:40 |
| S11<br>7 | 43   | (aircraft with controller) and (controller near2 stick) and ((pitch or roll) with attitude) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/12 16:24 |
| S11<br>8 | 4979 | aircraft and ((longitudinal or lateral) with (inceptor or axes))                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/12 16:25 |
| S11<br>9 | 3186 | aircraft and ((pitch or roll) with attitude)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/12 16:25 |
| S12<br>0 | 388  | S118 and S119   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/12 17:13 |
| S12<br>1 | 959  | aircraft and (pitch near2 "rotor blades")   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/12 17:14 |
| S12<br>2 | 410  | S121 and (axis near2 (longitudinal or lateral))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/13 09:20 |
| S12<br>3 | 1    | (collective near1 lever) and (cyclic near1 controller)                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/13 09:22 |
| S12<br>4 | 0    | (collective near1 level) and (cyclic near1 controller)                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/13 09:23 |
| S12<br>5 | 3602 | ((pitch\$3 with (down or up)) same (longitudinal or lateral))                               | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/13 09:24 |
| S12<br>6 | 2    | S125 and (tactile with cues)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/04/13 09:32 |

## EAST Search History

|          |      |  |   |    |     |                  |
|----------|------|--|---|----|-----|------------------|
| S12<br>7 | 57   | (aircraft or helicopter) and ((<br>"collective stick" or "collective controller" or "control stick") with cyclic) and ((pitch or roll) near2 attitude) | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 10:01 |
| S12<br>8 | 51   | (aircraft or helicopter) and (cyclic near1 stick) and ((pitch or roll) near2 attitude)   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 10:03 |
| S12<br>9 | 1057 | "51" and (vertical near1 state)  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 10:03 |
| S13<br>0 | 0    | S128 and (vertical near1 state)  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 10:03 |
| S13<br>1 | 60   | (aircraft or helicopter) and (vertical near1 state)  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 10:28 |
| S13<br>2 | 0    | S131 and ((collective near1 stick) or (collective near1 controller) or (cyclic near1 stick))   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 10:04 |
| S13<br>3 | 6    | ("3426650"   "3604664"   "3727520"   "3733039"   "3920966").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 10:07 |
| S13<br>4 | 35   | (aircraft or helicopter) and (tactile near cue\$3)   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 10:28 |
| S13<br>5 | 2    | ("6735500").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/13 12:03 |
| S13<br>6 | 2    | ("5403155"   "5499785").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 12:03 |
| S13<br>7 | 518  | 244/17.13  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 12:46 |
| S13<br>8 | 1251 | "244"/\$.ccls. and (controll\$3 same ((pitch or roll) with attitude))  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 12:47 |
| S13<br>9 | 1223 | S138 and @py<"2004"  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 13:05 |
| S14<br>0 | 58   | (attitude near2 sensor) and (position with (stick or "cyclic axes" or "collective stick" or "control stick" or "collective controller" or cyclic))     | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 13:07 |

## EAST Search History

|          |        |   |   |    |     |                  |
|----------|--------|---|---|----|-----|------------------|
| S14<br>1 | 7      | ("3733039"   "4168045"   "4258890"   "4477876"   "4645141"   "4664346"   "4758958").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 13:43 |
| S14<br>2 | 157    | (aircraft or helicopter) and (augmentation same (pitch or roll)) and attitude   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 13:44 |
| S14<br>3 | 150    | S142 and @py<"2004"   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 14:10 |
| S14<br>4 | 396    | 244/181   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 14:10 |
| S14<br>5 | 24     | ("4200252"   "4213584"   "4626998"   "5001646"   "5023796"   "5167167"   "5169090"   "5178307"   "5195039"   "5195700"   "5213282"   "5213283"   "5222691"   "5238203"   "5301112"   "5310135"   "5331881"   "5428543"   "5465212"   "5553817"   "5971325"   "6076024"   "6145428"   "6189836").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 14:33 |
| S14<br>6 | 607    | 244/3.21  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 14:43 |
| S14<br>7 | 201744 | (aircraft or helicopter) and (cyclic with stick) and (pitch or roll) or (acceleration or deceleratio)   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 14:45 |
| S14<br>8 | 103    | (aircraft or helicopter) and (cyclic with stick) and (pitch or roll) and (acceleration or deceleratio)  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 14:45 |
| S14<br>9 | 107    | (aircraft or helicopter) and (cyclic with stick) and (pitch or roll) and (acceleration or deceleration)   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/13 15:04 |
| S15<br>0 | 2      | ("6622065").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/13 15:17 |
| S15<br>1 | 7      | (aircraft or helicopter) and ((cyclic near1 stick) with ((sensor or detector) near1 position))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/13 16:20 |
| S15<br>2 | 102    | (aircraft or helicopter) and (cyclic near1 stick) and positions   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/13 16:20 |

## EAST Search History

|          |      |   |   |    |     |                  |
|----------|------|---|---|----|-----|------------------|
| S15<br>3 | 2491 | ((pitch with attitude) same (roll with attitude))                                       | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/05/31 09:20 |
| S15<br>4 | 1305 | S153 and (velocity or (vertical adj1 velocity) or "flight path")                        | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/05/31 10:53 |
| S15<br>5 | 2    | ("6740273").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/05/31 11:05 |
| S15<br>6 | 2    | ("6141608").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/05/31 11:05 |
| S15<br>7 | 7    | ("3733039"   "4168045"   "4258890"   "4477876"   "4645141"   "4664346"   "4758958").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/05/31 14:27 |